# STN-Structure Search 1/8/07

10/574,536

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ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:631033 CAPLUS

DOCUMENT NUMBER: 145:103956

TITLE: Preparation of peptides as Myd88 homodimerization

inhibitors

INVENTOR (S): Carminati, Paolo; Gallo, Grazia; Fanto', Nicola;

Ruggiero, Vito; Sassano, Marica; Mastroianni, Domenico

PATENT ASSIGNEE(S): Sigma-Tau Industrie Farmaceutiche Riunite S.p.A.,

Italy

SOURCE: PCT Int. Appl., 122 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.				KIND		DATE		APPLICATION NO.						DATE			
WO	√O 2006067091			A1 20060629			WO 2005-EP56847 BA, BB, BG, BR, BW, BY,						20051216					
		GE, KZ, MZ, SG, VN,	GH, LC, NA, SK, YU,	CR, GM, LK, NG, SL, ZA,	CU, HR, LR, NI, SM, ZM,	CZ, HU, LS, NO, SY, ZW	DE, ID, LT, NZ, TJ,	DK, IL, LU, OM, TM,	DM, IN, LV, PG, TN,	DZ, IS, LY, PH, TR,	EC, JP, MA, PL, TT,	EE, KE, MD, PT, TZ,	EG, KG, MG, RO, UA,	ES, KM, MK, RU, UG,	FI, KN, MN, SC, US,	GB, KP, MW, SD, UZ,	GD, KR, MX, SE, VC,	
	RW:	CF,	CG, KE,	CI,	LU, CM, MW,	LV, GA, MZ,	CZ, MC, GN, NA, TM	NL, GQ,	PL, GW,	PT, ML,	RO, MR,	SE, NE,	SI, SN,	SK, TD.	TR,	BF,	BJ,	

PRIORITY APPLN. INFO.: OTHER SOURCE(S):

MARPAT 145:103956

EP 2004-425929 A 20041220

The invention relates to peptidic and peptidomimetic compds. AA1-AA2-AA3-AA4-AA5-AA6-AA7 [AA1-AA7 are L- or D-amino acid residues (defined), at least one of which is not a natural amino acid (if all are natural amino acids, the sequence is reversed); AA1, AA2, AA7 may be absent; AA2-AA3 may be a spacer group; AA5-AA6 may be a  $\beta$ -turn mimetic; a disulfide bond may exist between AA4 = AA7 = Cys or D-Cys; the N-terminal amine group may be acylated and the terminal carboxyl may be in the acid or amide form] or their pharmaceutically-acceptable salts, which mimic a particular protein portion of MyD88, preventing its homodimerization and interfering with its interaction with the TIR domain. The compds. are useful as medicaments, particularly for the treatment of inflammatory and autoimmune diseases. Thus, Ac-D-Thr-Gly-D-Pro-D-Leu-D-Val-D-Asp-D-Arg-NH2 was prepared by the solid-phase method and assayed for inhibition of homodimerization of Myd88 (30% in the NF-kB assay). IT 894787-03-2P 894787-12-3P 894787-35-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of peptides as Myd88 homodimerization inhibitors) RN 894787-03-2 CAPLUS

1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2R)-1-(aminocarbonyl)-2-CN hydroxypropyl]-1-[4-methoxy-3-[(3-pyridinylcarbonyl)amino]benzoyl]-6-oxo-, (5R) - (9CI) (CA INDEX NAME)

RN 894787-12-3 CAPLUS

CN L-Threoninamide, N2-acetyl-L-arginyl-3-amino-4-methylbenzoyl-(5R)-6-oxo-1,7-diazaspiro[4.4]nonane-7-acetyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 894787-35-0 CAPLUS

CN L-Threoninamide, N2-acetyl-L-arginyl-3-amino-4-methoxybenzoyl-(5R)-6-oxo-1,7-diazaspiro[4.4]nonane-7-acetyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

6

# RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:347017 CAPLUS

DOCUMENT NUMBER: 142:411343

TITLE: Preparation of substituted spirocyclic lactams as

inhibitors of proteinase BACE1

INVENTOR(S): Auberson, Yves; Glatthar, Ralf; Salter, Rhys; Simic,

Oliver; Tintelnot-Blomley, Marina

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO		KIND	שתה	7 ID 1										
		RIND			APPLICATION NO.						DATE			
WO 200503553 W: AE, CN, GE, LK, NO, TJ, RW: BW,	5 AG, AL, A CO, CR, 6 GH, GM, 1 LR, LS, 3 NZ, OM, 1 TM, TN, 3 GH, GM, 1	A1 AM, AT, CU, CZ, HR, HU, LT, LU, PG, PH, TR, TT, KE, LS,	20050421 AU, AZ, DE, DK, ID, IL, LV, MA, PL, PT, TZ, UA, MW, MZ,	WO BA, BI DM, D2 IN, IS MD, MC RO, RU UG, US NA, SI	2004- B, BG, Z, EC, S, JP, G, MK, J, SC, S, UZ,	EP110 BR, EE, KE, MN, SD, VC,	D54 BW, EG, KG, MW, SE, VN,	BY, ES, KP, MX, SG, YU,	BZ, FI, KR, MZ, SK, ZA,	O041 CA, GB, KZ, NA, SL, ZM,	CH, GD, LC, NI, SY, ZW			
AZ, EE, ; SI, ; SN, *	BY, KG, 1 ES, FI, 1 SK, TR, 1 TD, TG	KZ, MD, FR, GB, BF, BJ,	RU, TJ, GR, HU, CF, CG,	TM, AT IE, IT CI, CM	T, BE, T, LU, M, GA,	BG, MC, GN,	CH, NL, GQ,	CY, PL, GW,	CZ, PT, ML,	DE, RO, MR,	DK, SE, NE,			
CA 2540249	•	Δ1 ′	20050421	AU 2004-279553 CA 2004-2540249					20041004					
EP 1670803 R: AT, 1		A1 2 DE, DK,	20060621 ES, FR,	EP GB, GR	2004-7 R, IT,	76579 LI.	O LU.		20	00410	104			
BR 2004015019	5	A 2	20061107	BR	2004-1	5015			20	00410	004			
CN 1863804		A 2	20061115	CN	2004-8	30028	840		20	0410				
PRIORITY APPLN. IN	1FO.:			GB	2003-2	3204		A	. 20					
OTHER SOURCE(S):	M	MARPAT 1	142:41134	WO	2004-E	EP110	54	W	20	0410				

GI

$$\mathbb{R}^4$$
  $\mathbb{N}$   $\mathbb{R}^5$   $\mathbb{R}^1$   $\mathbb{N}$   $\mathbb{R}^3$   $\mathbb{R}^3$ 

Title compds. I [R1 = H, alkyl; R2 = (cyclo)alkyl, etc.; R3 = alkyl, alkylamino, etc.; R4 = H, alkyl, alkoxy, etc.; R5 = H, alkyl; R6 = H, OH, halo; m, p = 1-2] are prepared For instance, II is prepared by the coupling of the saponified (2S)-2-[(5S)-1-isobutyl-6-oxo-1,7-diazaspiro[4.4]nonan-7-yl]propionic acid Me ester and (2R,4S,5S)-5-amino-4-hydroxy-2-methyl-6-phenylhexanoic acid butylamide (CH2Cl2, HOBt, Et3N, EDCI). In at least one assay of proteinase BACE1, BACE2, cathepsin D and inhibition of amyloid peptide, example compds. show activity at or below 20  $\mu$ M and are useful in the treatment of vascular disorders.

IT 850426-73-2P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of substituted spirocyclic lactams as inhibitors of proteinase BACE1)

Ι

RN 850426-73-2 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2R)-2-hydroxy-3-[[[3-(1-methylethyl)phenyl]methyl]amino]-1-(phenylmethyl)propyl]-α-methyl-6-oxo-1-(2-propynyl)-, (αS,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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hydroxy-2-methyl-6-phenylhexanoic acid butylamide 850426-36-7P.
 (2R, 4S, 5S) -5-[[(2S) -2-[(5S) -1-Propyl-6-oxo-1, 7-diazaspiro[4.4]non-7-
 yl]propionyl]amino]-4-hydroxy-2-methyl-6-phenylhexanoic acid butylamide
 850426-37-8P, (2R,4S,5S)-5-[[(2S)-2-[(5S)-1-Phenyl-6-oxo-1,7-
 diazaspiro[4.4]non-7-yl]propionyl]amino]-4-hydroxy-2-methyl-6-
 phenylhexanoic acid butylamide 850426-38-9P,
 (2R, 4S, 5S) -5-[[(2S) -2-[(5R) -1-Phenyl-6-oxo-1, 7-diazaspiro[4.4]non-7-
 yl]propionyl]amino]-4-hydroxy-2-methyl-6-phenylhexanoic acid butylamide
 850426-39-0P, (2R,4S,5S)-4-Hydroxy-2-methyl-5-[[(2S)-2-[(5S)-6-oxo-
 1-propyl-1,7-diazaspiro[4.4]non-7-yl]propionyl]amino]-6-phenylhexanoic
 acid (2,2-dimethylpropyl)amide 850426-40-3P,
 (2R, 4S, 5S) -5-[[(2S) -2-[(5S) -1-(2, 2-Dimethylpropyl) -6-oxo-1, 7-
 diazaspiro[4.4]non-7-yl]propionyl]amino]-4-hydroxy-2-methyl-6-
phenylhexanoic acid butylamide 850426-41-4P,
 (2R, 4S, 5S) -4-Hydroxy-5-[[(2S)-2-[(5S)-1-(3-methoxypropy1)-6-oxo-1,7-
diazaspiro[4.4]non-7-yl]propanoyl]amino]-2-methyl-6-phenylhexanoic acid
butylamide 850426-42-5P, (2R,4S,5S)-4-Hydroxy-5-[[(2S)-2-[(5R)-1-
 (3-methoxypropyl)-6-oxo-1,7-diazaspiro[4.4]non-7-yl]propionyl]amino]-2-
methyl-6-phenylhexanoic acid butylamide 850426-43-6P,
 (2R,4S,5S)-5-[[(2S)-2-[(5R)-1-Propyl-6-oxo-1,7-diazaspiro[4.4]non-7-
yl]propionyl]amino]-4-hydroxy-2-methyl-6-phenylhexanoic acid butylamide
850426-44-7P, (2R,4S,5S)-4-Hydroxy-5-[[(2S)-2-[(5S)-1-(2-
fluoroethyl)-6-oxo-1,7-diazaspiro[4.4]non-7-yl]propionyl]amino]-2-methyl-6-
phenylhexanoic acid butylamide 850426-45-8P,
(2R, 4S, 5S) -5-[[(2S) -2-[(5R) -1-Allyl-6-oxo-1,7-diazaspiro[4.4]non-7-
yl]propionyl]amino]-4-hydroxy-2-methyl-6-phenylhexanoic acid butylamide
850426-50-5P, (2S,4R,5R)-5-[[(2S)-2-[(5R)-1-Allyl-6-0x0-1,7-
diazaspiro[4.4]non-7-yl]propionyl]amino]-4-hydroxy-2-methyl-6-
phenylhexanoic acid butylamide 850426-51-6P,
(2S, 4R, 5R) -5-[[(2S) -2-[(5S) -1-Allyl-6-oxo-1,7-diazaspiro[4.4]non-7-
yl]propionyl]amino]-4-hydroxy-2-methyl-6-phenylhexanoic acid butylamide
850426-52-7P, (2S,4R,5R)-4-Hydroxy-5-[[(2S)-2-[(5R)-1-(4-
hydroxybutyl)-6-oxo-1,7-diazaspiro[4.4]non-7-yl]propionyl]amino]-2-methyl-
6-phenylhexanoic acid butylamide 850426-55-0P,
(2R, 4S, 5S) -4-Hydroxy-5-[[(2S)-2-[(5S)-1-(4-hydroxybutyl)-6-oxo-1,7-
diazaspiro[4.4]non-7-yl]propionyl]amino]-2-methyl-6-phenylhexanoic acid
butylamide 850426-59-4P, (2R,4S,5S)-5-[[(2S)-2-[(3S,5S)-3-Fluoro-
6-oxo-1-propyl-1,7-diazaspiro[4.4]non-7-yl]propionyl]amino]-4-hydroxy-2-
methyl-6-phenylhexanoic acid butylamide 850426-63-0P,
(2S) -N-[(1S,2R)-1-Benzyl-2-hydroxy-3-[(3-isopropylbenzyl)amino]propyl]-2-
[(5S)-6-oxo-1-propyl-1,7-diazaspiro[4.4]non-7-yl]propionamide
850426-67-4P 850426-68-5P, (2S)-N-[(1S,2R)-1-Benzyl-2-
hydroxy-3-[(3-isopropylbenzyl)amino]propyl]-2-[(3S,5S)-1-cyclopropylmethyl-
3-fluoro-6-oxo-1,7-diazaspiro[4.4]non-7-yl]propaneamide
850426-69-6P, (2S)-N-[(1S,2R)-1-Benzyl-2-hydroxy-3-[(3-
isopropylbenzyl)amino]propyl]-2-[(3S,5S)-1-propyl-3-fluoro-6-oxo-1,7-
diazaspiro[4.4]non-7-yl]propionamide 850426-70-9P,
(2S) -N-[(1S,2R)-1-Benzyl-3-[1-(3-bromophenyl)cyclopropylamino]-2-
hydroxypropyl]-2-[(3S,5S)-1-cyclopropylmethyl-3-fluoro-6-oxo-1,7-
diazaspiro[4.4]non-7-yl]propaneamide 850426-71-0P,
(2S) -N-[(1S,2R)-1-Benzyl-2-hydroxy-3-[(3-isopropylbenzyl)amino]propyl]-2-
[(5S)-1-(2-fluoroethyl)-6-oxo-1,7-diazaspiro[4.4]non-7-yl]propaneamide
850426-72-1P, (2S)-N-[(1S,2R)-1-Benzyl-2-hydroxy-3-[(3-
isopropylbenzyl)amino]propyl]-2-[(5S)-1-cyclopropylmethyl-6-oxo-1,7-
diazaspiro[4.4]non-7-yl]propaneamide 850426-76-5P
850552-36-2P 850552-37-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
   (preparation of substituted spirocyclic lactams as inhibitors of proteinase
  BACE1)
850426-28-7 CAPLUS
1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-
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RN CN

hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]- $\alpha$ -methyl-1-(2-methylpropyl)-6-oxo-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-35-6 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(cyclopropylmethyl)-α-methyl-6-oxo-, (αS,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-36-7 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-α-methyl-6-oxo-1-propyl-, (αS,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-37-8 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-α-methyl-6-oxo-1-phenyl-, (αS,5S)- (9CI) (CA INDEX NAME)

RN 850426-38-9 CAPLUS

CN 1,7-Diazaspiro[4.4] nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-α-methyl-6-oxo-1-phenyl-, (αS,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-39-0 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-[(2,2-dimethylpropyl)amino]-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-  $\alpha$ -methyl-6-oxo-1-propyl-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-40-3 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(2,2-dimethylpropyl)-α-methyl-6-oxo-, (αS,5S)- (9CI) (CA INDEX NAME)

RN 850426-41-4 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(3-methoxypropyl)- $\alpha$ -methyl-6-oxo-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-42-5 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(3-methoxypropyl)- $\alpha$ -methyl-6-oxo-, ( $\alpha$ S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-43-6 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]- $\alpha$ -methyl-6-oxo-1-propyl-, ( $\alpha$ S,5R)- (9CI) (CA INDEX NAME)

RN 850426-44-7 CAPLUS

CN 1,7-Diazaspiro[4.4] nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(2-fluoroethyl)- $\alpha$ -methyl-6-oxo-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-45-8 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-α-methyl-6-oxo-1-(2-propenyl)-, (αS,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-50-5 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1R,2R,4S)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-α-methyl-6-oxo-1-(2-propenyl)-, (αS,5R)- (9CI) (CA INDEX NAME)

RN 850426-51-6 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1R,2R,4S)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]- $\alpha$ -methyl-6-oxo-1-(2-propenyl)-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-52-7 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1R,2R,4S)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(4-hydroxybutyl)-α-methyl-6-oxo-, (αS,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-55-0 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(4-hydroxybutyl)-α-methyl-6-oxo-, (αS,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-59-4 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-3-fluoro-α-methyl-6-oxo-1-propyl-, (αS,3S,5S)- (9CI) (CA INDEX NAME)

RN 850426-63-0 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2R)-2-hydroxy-3-[[[3-(1-methylethyl)phenyl]methyl]amino]-1-(phenylmethyl)propyl]- $\alpha$ -methyl-6-oxo-1-propyl-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN. 850426-67-4 CAPLUS

CN 1,7-Diazaspiro[4.4] nonane-7-acetamide, N-[(1S,2R)-3-[(6-bromo-3,4-dihydro-2,2-dimethyl-2H-1-benzopyran-4-yl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-1-(cyclopropylmethyl)- $\alpha$ -methyl-6-oxo-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-68-5 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, 1-(cyclopropylmethyl)-3-fluoro-N-[(1S,2R)-2-hydroxy-3-[[[3-(1-methylethyl)phenyl]methyl]amino]-1-(phenylmethyl)propyl]-α-methyl-6-oxo-, (αS,3S,5S)- (9CI) (CA INDEX NAME)

RN 850426-69-6 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, 3-fluoro-N-[(1S,2R)-2-hydroxy-3-[[[3-(1-methylethyl)phenyl]methyl]amino]-1-(phenylmethyl)propyl]- $\alpha$ -methyl-6-oxo-1-propyl-, ( $\alpha$ S,3S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-70-9 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2R)-3-[(3-bromophenyl)cyclopropylamino]-2-hydroxy-1-(phenylmethyl)propyl]-1-(cyclopropylmethyl)-3-fluoro-α-methyl-6-oxo-, (αS,3S,5S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-71-0 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, 1-(2-fluoroethyl)-N-[(1S,2R)-2-hydroxy-3-[[[3-(1-methylethyl)phenyl]methyl]amino]-1-(phenylmethyl)propyl]-α-methyl-6-oxo-, (αS,5S)- (9CI) (CA INDEX NAME)

RN 850426-72-1 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, 1-(cyclopropylmethyl)-N-[(1S,2R)-2-hydroxy-3-[[[3-(1-methylethyl)phenyl]methyl]amino]-1-(phenylmethyl)propyl]-α-methyl-6-oxo-, (αS,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850426-76-5 CAPLUS

CN

1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2R)-2-hydroxy-3-[[[3-(1-methylethyl)phenyl]methyl]amino]-1-(phenylmethyl)propyl]- $\alpha$ -methyl-6-oxo-1-(propyl-2,2,3,3-t4)-, ( $\alpha$ S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850552-36-2 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(bicyclo[2.2.1]hept-2-ylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(cyclopropylmethyl)-α-methyl-6-oxo-, (αS,5S)- (9CI) (CA INDEX NAME)

RN 850552-37-3 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(bicyclo[2.2.1]hept-2-ylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-1-(cyclopropylmethyl)-α-methyl-6-oxo-, (αS,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 850426-46-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of substituted spirocyclic lactams as inhibitors of proteinase BACE1)

RN 850426-46-9 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[(1S,2S,4R)-5-(butylamino)-2-hydroxy-4-methyl-5-oxo-1-(phenylmethyl)pentyl]-α-methyl-6-oxo-, monohydrochloride, (αS,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

1

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN L4

RE

(1) Arditi, M; US 2003148986 A1 2003

- (2) Bartfai, T; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 2003, V100(13), P7971 CAPLUS
- (3) Cheung, H; J AM CHEM SOC 1964, V86(19), P4200 CAPLUS
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## => d his

(FILE 'HOME' ENTERED AT 14:22:29 ON 08 JAN 2007)

FILE 'REGISTRY' ENTERED AT 14:22:48 ON 08 JAN 2007

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 33 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:23:20 ON 08 JAN 2007

L4 2 S L3

=> d l1

L1 HAS NO ANSWERS

L1

Structure attributes must be viewed using STN Express query preparation.

# => => d ibib abs 1-2

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2006:631033 CAPLUS 145:103956

DOCUMENT NUMBER: TITLE:

Preparation of peptides as Myd88 homodimerization

INVENTOR(S):

inhibitors

Carminati, Paolo; Gallo, Grazia; Fanto', Nicola; Ruggiero, Vito; Sassano, Marica; Mastroianni, Domenico

PATENT ASSIGNEE(S):

Sigma-Tau Industrie Farmaceutiche Riunite S.p.A.,

Italy SOURCE:

PCT Int. Appl., 122 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. ------

AU 2004279553

CA 2540249

A1

A1

20050421

20050421

AU 2004-279553

CA 2004-2540249

20041004

20041004

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WO 2006067091
                                   20060629
                            A1
                                              WO 2005-EP56847
          20051216
              SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
              VN, YU, ZA, ZM, ZW
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
              CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.:
                                                EP 2004-425929
                                                                      A 20041220
OTHER SOURCE(S):
                           MARPAT 145:103956
     The invention relates to peptidic and peptidomimetic compds.
AΒ
      AA1-AA2-AA3-AA4-AA5-AA6-AA7 [AA1-AA7 are L- or D-amino acid residues
      (defined), at least one of which is not a natural amino acid (if all are
     natural amino acids, the sequence is reversed); AA1, AA2, AA7 may be
     absent; AA2-AA3-AA4 may be a spacer group; AA5-AA6 may be a \beta-turn
     mimetic; a disulfide bond may exist between AA4 = AA7 = Cys or D-Cys; the
     N-terminal amine group may be acylated and the terminal carboxyl may be in
     the acid or amide form] or their pharmaceutically-acceptable salts, which
     mimic a particular protein portion of MyD88, preventing its
     homodimerization and interfering with its interaction with the TIR domain.
     The compds. are useful as medicaments, particularly for the treatment of
     inflammatory and autoimmune diseases. Thus, Ac-D-Thr-Gly-D-Pro-D-Leu-D-
     Val-D-Asp-D-Arg-NH2 was prepared by the solid-phase method and assayed for
     inhibition of homodimerization of Myd88 (30% in the NF-kB assay).
REFERENCE COUNT:
                                 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                           6
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                           2005:347017 CAPLUS
DOCUMENT NUMBER:
                          .142:411343
TITLE:
                           Preparation of substituted spirocyclic lactams as
                           inhibitors of proteinase BACE1
INVENTOR (S):
                           Auberson, Yves; Glatthar, Ralf; Salter, Rhys; Simic,
                           Oliver; Tintelnot-Blomley, Marina
PATENT ASSIGNEE(S):
                           Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
SOURCE:
                           PCT Int. Appl., 32 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                          KIND
                                  DATE
                                             APPLICATION NO.
                                                                       DATE
                          - - <del>-</del> -
                                  -----
     WO 2005035535
                           A1
                                  20050421
                                            WO 2004-EP11054
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
         TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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EP 1670803 **A**1 20060621 EP 2004-765790 20041004 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK BR 2004015015 Α 20061107 BR 2004-15015 20041004 CN 1863804 A 20061115 CN 2004-80028840 20041004 PRIORITY APPLN. INFO.: GB 2003-23204 20031003 WO 2004-EP11054 20041004

Ι

OTHER SOURCE(S): MARPAT 142:411343

AB Title compds. I [R1 = H, alkyl; R2 = (cyclo)alkyl, etc.; R3 = alkyl, alkylamino, etc.; R4 = H, alkyl, alkoxy, etc.; R5 = H, alkyl; R6 = H, OH, halo; m, p = 1-2] are prepared For instance, II is prepared by the coupling of the saponified (2S)-2-[(5S)-1-isobutyl-6-oxo-1,7-diazaspiro[4.4]nonan-7-yl]propionic acid Me ester and (2R,4S,5S)-5-amino-4-hydroxy-2-methyl-6-phenylhexanoic acid butylamide (CH2Cl2, HOBt, Et3N, EDCI). In at least one assay of proteinase BACE1, BACE2, cathepsin D and inhibition of amyloid peptide, example compds. show activity at or below 20 μM and are useful in the treatment of vascular disorders.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

L1

L4

(FILE 'HOME' ENTERED AT 14:22:29 ON 08 JAN 2007)

FILE 'REGISTRY' ENTERED AT 14:22:48 ON 08 JAN 2007 STRUCTURE UPLOADED

L2 0 S L1 L3 33 S L1 FULL

> FILE 'CAPLUS' ENTERED AT 14:23:20 ON 08 JAN 2007 2 S L3

L5

FILE 'REGISTRY' ENTERED AT 14:24:19 ON 08 JAN 2007 STRUCTURE UPLOADED

L6 0 S L5 · L7 33 S L5 FULL

FILE 'CAPLUS' ENTERED AT 14:25:42 ON 08 JAN 2007

L8 2 S L7

=> d.15 L5 HAS NO ANSWERS L5 ST

Structure attributes must be viewed using STN Express query preparation.

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